# **SmartWatch® IP Network Cameras User Manual**

Thank you for purchasing our product.

This manual applies to:

Туре	Model						
1.3 Megapixel	H20IPEBIR1F, H20IPEBIR1VF, H20IPVDIR1F						
3 Megapixel	H20IPEBIR3F, H20IPEBIR3VF, H20IPVDIR3F						

This manual is subject to change without notice. Any updates will be added to the new version of this manual.

# **DISCLAIMER STATEMENT**

"Underwriters Laboratories Inc. ("UL") has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in UL's Standard(s) for Safety, UL60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT."

# **Regulatory Information**

### **FCC Information**

**FCC compliance:** This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### **FCC Conditions**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

# **EU Conformity Statement**



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling,

return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

# **Table of Contents**

CHAPTER	R 1 SYSTEM REQUIREMENT	7
CHAPTER	R 2 NETWORK CONNECTION	8
2.1	SETTING THE IP NETWORK CAMERA OVER LAN	8
2.1.	1 Wiring over LAN	8
2.1	2 Detecting and Changing the IP Address	9
2.2	SETTING THE IP NETWORK CAMERA OVER WAN	10
2.2.	1 Static IP Connection	10
2.2	2 Dynamic IP Connection	11
CHAPTER	R 3 ACCESS TO THE IP NETWORK CAMERA	13
3.1	ACCESSING BY WEB BROWSERS	13
3.2	ACCESSING BY CLIENT SOFTWARE	15
3.2.	1 Accessing by System Manager Software	15
3.2	2 Accessing by SmartWatch® Viewer Software	16
CHAPTER	R 4 LIVE VIEW	17
4.1	LIVE VIEW SCREEN	17
4.2	STARTING LIVE VIEW	18
4.3	RECORDING AND CAPTURING IMAGES MANUALLY	19
4.4	OPERATING PTZ CONTROL	19
4.4.	1 PTZ Control Panel	19
4.4	2 Setting / Calling a Preset	20
4.5	CONFIGURING LIVE VIEW PARAMETERS	21
CHAPTER	R 5 IP NETWORK CAMERA CONFIGURATION	22
5.1	CONFIGURING LOCAL PARAMETERS	22
5.2	CONFIGURING TIME SETTINGS	23
5.3	CONFIGURING NETWORK SETTINGS	25
5.3.	1 Configuring TCP/IP Settings	25
5.3	2 Configuring Port Settings	26
5.3	3 Configuring PPPoE Settings	27
5.3.	4 Configuring DDNS Settings	28
5.3.	5 Configuring SNMP Settings	30
5.3.	6 Configuring 802.1X Settings	32
5.3.	7 Configuring QoS Settings	33
5.3.	8 Configuring FTP Settings	33
5.3.	9 Configuring UPnP™ Settings	35
5.4	CONFIGURING VIDEO AND AUDIO SETTINGS	36
5.4.	1 Configuring Video Settings	36
5.4	2 Configuring Audio Settings	37
5.5	CONFIGURING IMAGE PARAMETERS	37
5.5.	1 Configuring Display Settings	37

	5.5.2	Configuring OSD Settings	39
	5.5.3	Configuring Text Overlay Settings	41
	5.5.4	Configuring Privacy Mask	41
5.0	6	CONFIGURING AND HANDLING ALARMS	42
	5.6.1	Configuring Motion Detection	43
	5.6.2	Configuring Tamper-proof Alarm	46
	5.6.3	Configuring External Alarm Input	47
	5.6.4	Configuring Alarm Output	49
	5.6.5	Handling Exception	50
	5.6.6	Email Sending Triggered by Alarm	51
	5.6.7	Configuring Snapshot Settings	52
CHAI	PTER (	S STORAGE SETTINGS	54
6.:	1	Configuring NAS Settings	54
6.2	2	CONFIGURING RECORDING SCHEDULE	55
CHAI	PTER :	7 PLAYBACK	59
CHAI	PTER 8	3 LOG SEARCHING	61
CHAI	PTER 9	OTHERS	63
9.:	1	Managing User Accounts	63
9.2	2	CONFIGURING RTSP AUTHENTICATION	65
9.3	3	Anonymous Visit	65
9.4	4	IP Address Filter	66
9.	5	VIEWING DEVICE INFORMATION	68
9.0	6	MAINTENANCE	69
	9.6.1	Rebooting the Camera	69
	9.6.2	Restoring Default Settings	69
	9.6.3	Exporting/ Importing Configuration File	70
	9.6.4	Upgrading the System	70

# **Chapter 1 System Requirement**

Operating System: Microsoft Windows XP SP1 and above version / Vista / Win7 /

Server 2003 / Server 2008 32bits

CPU: Intel Pentium IV 3.0 GHz or higher

RAM: 1G or higher

Display: 1024×768 resolution or higher

**Web Browser:** Internet Explorer 6.0 and above version, Apple Safari 5.02 and above version, Mozilla Firefox 3.5 and above version and Google Chrome8 and above

versions.

# **Chapter 2 Network Connection**

# Before you start:

- If you want to set the IP network camera via a LAN (Local Area Network), please refer to Section 2.1 Setting the IP network camera over the LAN.
- If you want to set the IP network camera via a WAN (Wide Area Network), please refer to Section 2.2 Setting the IP network camera over the WAN.

# 2.1 Setting the IP network camera over LAN

To view and configure the camera via a LAN, you need to connect the IP network camera in the same subnet as your computer. Install the SmartWatch® System Manager software to search and change the IP of the IP network camera.

# 2.1.1 Wiring over LAN

The following diagrams show the two ways of connecting an IP network camera to computer:

- To test the IP network camera, you can directly connect the IP network camera to the computer with a network cable as shown in Figure 2-1.
- Refer to the Figure 2-2 to set the IP network camera up over LAN via a switch/router.



Figure 2-1 Connecting Directly

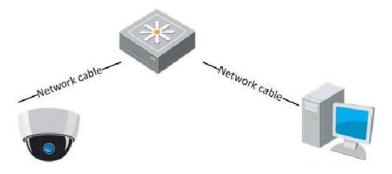


Figure 2-2 Connecting via a Switch or a Router

# 2.1.2 Detecting and Changing the IP Address

You need the IP address to connect to the IP network camera.

### Steps:

- 1. To get the IP address, install the System Manager client software. This will display a list of online devices. Please refer to the user manual of System Manager client software for more detailed information.
- 2. Change the IP address and subnet mask to the same range as that of your computer.
- 3. Enter the IP address of the IP network camera in the address field of the web browser to view the live video.



- The default IP address is 192.0.0.64 and the port number is 8000. The default user name is admin, and password is 12345.
- For accessing the IP network camera from different subnets, please set the gateway for the IP network camera after logging in. For more detailed information, please refer to Section 5.3.1 Configuring TCP/IP Settings.

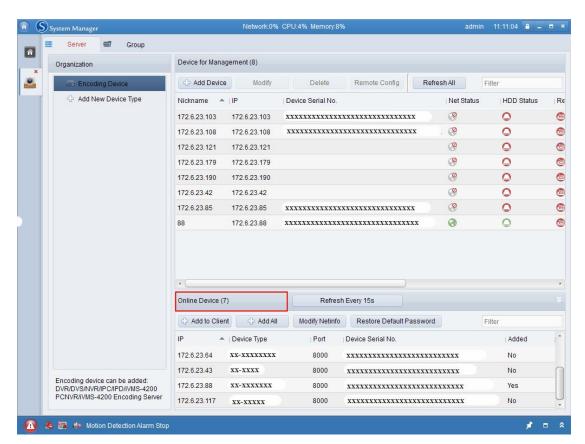


Figure 2-3 System Manager Interface

# 2.2 Setting the IP network camera over WAN

This section explains how to connect to the IP network camera via WAN with a static IP or a dynamic IP.

# 2.2.1 Static IP Connection

# Before you start:

Please apply for a static IP from an ISP (Internet Service Provider). With the static IP address, you can connect the IP network camera via a router.

# Connecting the IP network camera via a router

# Steps:

- 1. Connect the IP network camera to the router.
- Assign a LAN IP address, the subnet mask and the gateway. Refer to Section 2.1.2
   Detecting and Changing the IP Address for detailed IP address configuration of the camera.
- 3. Save the static IP address in the router.
- 4. Set port mapping, e.g., 80, 8000, 8200 and 554 ports. Port mapping will vary depending on what router you have. Please refer to the router manufacturer.
- 5. Connect to the IP network camera through a web browser or the client software over the internet.

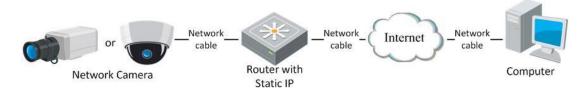


Figure 2-4 Accessing the Camera through Router with Static IP

# Connecting the IP network camera with static IP directly

You can also save the static IP address in the camera and directly connect it to the internet without using a router. Refer to *Section 2.1.2 Detecting and Changing the IP Address* for detailed IP address configuration of the camera.

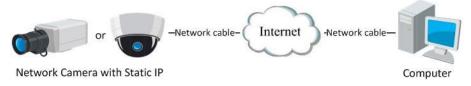


Figure 2-5 Accessing the Camera with Static IP Directly

# 2.2.2 Dynamic IP Connection

# Before you start:

If you have a dynamic IP from an ISP, you can connect the IP network camera to a modem or a router.

# • Connecting the IP network camera via a router

### Steps:

- 1. Connect the IP network camera to the router.
- 2. In the camera, assign a LAN IP address, the subnet mask and the gateway. Refer to *Section 2.1.2 Detecting and Changing the IP Address* for detailed LAN configuration.
- 3. In the router, set the PPPoE user name, password and confirm the password.
- 4. Set port mapping. E.g. 80, 8000, 8200 and 554 ports. The steps for port mapping may vary depending on the router.
- 5. Apply a domain name from a domain name provider.
- 6. Configure the DDNS settings in the router.
- 7. Connect to the camera via the applied domain name.

### Connecting the IP network camera via a modem

This camera supports the PPPoE auto dial-up function. The camera automatically gets a public IP address by ADSL dial-up after the camera is connected to a modem. You need to configure the PPPoE parameters of the IP network camera. Refer to *Section 5.3.3 Configuring PPPoE Settings* for detailed configuration.

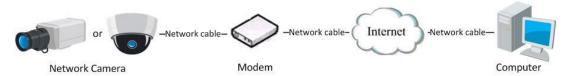


Figure 2-6 Accessing the Camera with Dynamic IP



The obtained IP address is dynamically assigned via PPPoE, so the IP address always changes after rebooting the camera. To solve the inconvenience of the dynamic IP, you need to get a domain name from the DDNS provider (E.g. DynDns.com). Please follow below steps for normal domain name resolution and private domain name resolution to solve the problem.

### ♦ Normal Domain Name Resolution

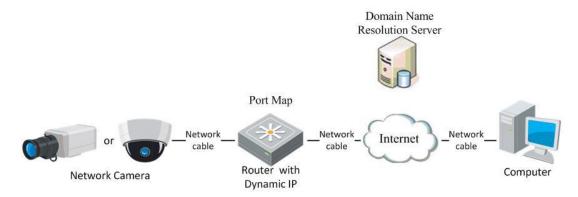


Figure 2-7 Normal Domain Name Resolution

### Steps:

- 1. Apply a domain name from a domain name provider.
- 2. Configure the DDNS settings in the **DDNS Settings** interface of the IP network camera. Refer to *Section 5.3.4 Configuring DDNS Settings* for detailed configuration.
- 3. Connect to the camera via the applied domain name.
- ♦ Private Domain Name Resolution

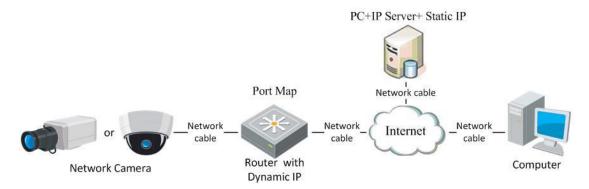


Figure 2-8 Private Domain Name Resolution

# Steps:

- 1. Install and run the IP Server software in a computer with a static IP.
- 2. Access the IP network camera through the LAN with a web browser or the client software.
- 3. Enable DDNS and select IP Server as the protocol type. Refer to *Section 5.3.4 Configuring DDNS Settings* for more detailed configuration.

# Chapter 3 Access to the IP network camera

# 3.1 Accessing by Web Browsers

# Steps:

- 1. Open the web browser.
- 2. In the address bar, input the IP address of the IP network camera, e.g., 192.0.0.64 and hit the enter key to enter the login interface.
- 3. Input the user name and password and click Login



The default user name is admin, password is 12345.



Figure 3-1 Login Interface

4. Install the plug-in before viewing the live video and operating the camera. Please follow the installation prompts to install the plug-in.

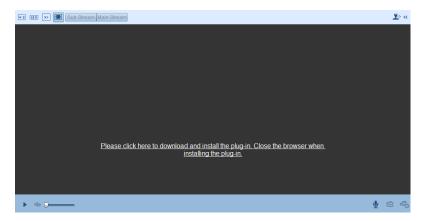


Figure 3-2 Download and Install Plug-in

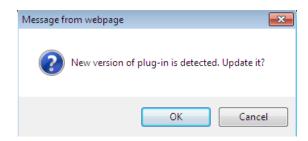


Figure 3-3 Install Plug-in (1)

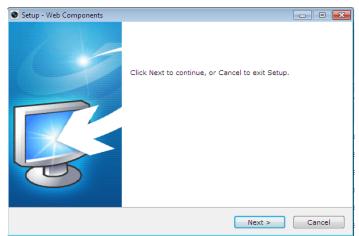


Figure 3-4 Install Plug-in (2)

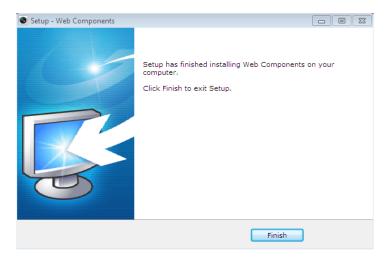


Figure 3-5 Install Plug-in (3)

Figure 3-6



You may have to close the web browser to install the plug-in. Please reopen the web browser and log back in again after installing the plug-in.

# 3.2 Accessing by Client Software

# 3.2.1 Accessing by System Manager Software

The product CD contains the System Manager client software (Client or PCNVR). You can view the live video and manage the camera with the client software.

Follow the installation prompts to install the software. The control panel and live view interface of System Manager are displayed below.

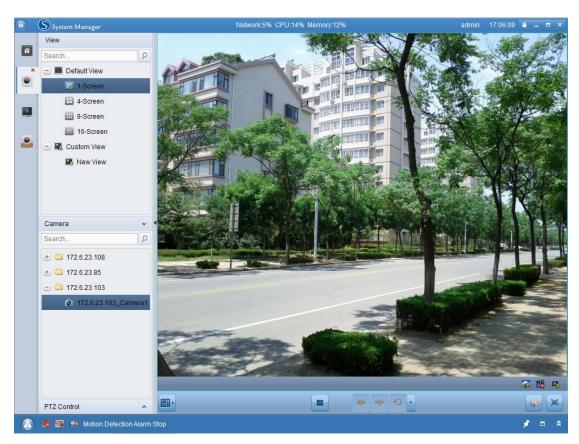


Figure 3-7 System Manager Live View



Figure 3-8 System Manager Configuration Panel



For detailed information about System Manager client software, please refer to the user manual of the System Manager software.

# 3.2.2 Accessing by SmartWatch® Viewer Software

To view the camera with a mobile phone, install the SmartWatch® Viewer software on your mobile phone.



For detailed information about SmartWatch® Viewer software, please refer to the user manual of the SmartWatch® Viewer software.

# **Chapter 4 Live View**

# 4.1 Live View Screen

The live video page allows you to view live video, capture images, PTZ control, set/call presets and configure video parameters.

Log in to the IP network camera to enter the live view page.

# Descriptions of the live view page:

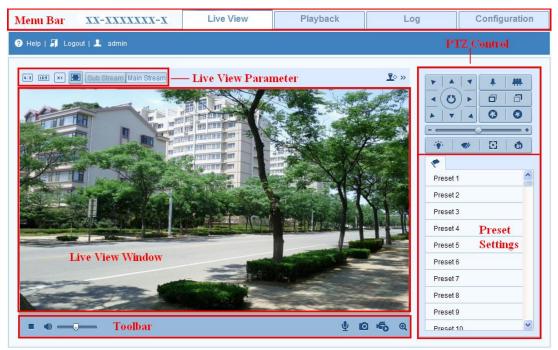


Figure 4-1 Live View Page

# Menu Bar:

Click each tab to enter Live View, Playback, Log and Configuration page respectively.

# **Live View Window:**

Display the live video.

### Toolbar:

Operations on the live view page, e.g., live view, capture, record, audio on/off, two-way audio, etc.

### **PTZ Control:**

Panning, tilting and zooming actions of the PTZ camera and the lighter and wiper control (if it supports PTZ function or an external pan/tilt unit has been installed).

# **Preset Setting/Calling:**

Set and call the preset for the camera (if supports PTZ function or an external pan/tilt unit has been installed).

### **Live View Parameters:**

Configure the image size and stream type of the live video.

# 4.2 Starting Live View

In the live view window as shown in Figure 4-2, click on the toolbar to start the live view of the camera.



Figure 4-2 Live View Toolbar

Table 4-1 Descriptions of the Toolbar

Icon	Description
▶/■	Start/Stop live view
	Manually capture images displayed in live view and save them as a JPEG file.
<b>5</b> / <b>5</b>	Manually start/stop recording.
<b>4</b> U	Audio on and adjust volume /Mute.
<u></u> • • • • • • • • • • • • • • • • • • •	Enable/Disable two-way audio.
<b>Q</b> / <b>@</b>	Enable/Disable PTZ.



Before using the two-way audio function or recording with audio, please set the **Stream Type** to **Video & Audio** (please refer to *Section 5.4*).

### **Full-screen Mode**

You can double-click on the live video screen to switch the current live view into full-screen or return back to normal mode from the full-screen.

Please refer to the following sections for more information:

- Configuring remote recording in *Section 6.2 Configuring Recording Schedule*.
- Setting the image quality of the live video in *Section 5.1 Configuring Local Parameters* and *Section 5.4.1 Configuring Video Settings*.
- Setting the OSD text on live video in *Section 5.5.2* **Configuring OSD Settings**.

# 4.3 Recording and Capturing Images Manually

In the live view screen, click on the toolbar to capture the live images or click

to record the live video. The location that the images and video recordings can can be set in the **Configuration > Local Configuration** page.



Please note that the captured image will be saved as a JPEG file in your computer.

# 4.4 Operating PTZ Control

In the live view screen, you can use the PTZ control buttons to control the camera (if PTZ camera connected).

### Before you start:

Please configure the PTZ parameters on RS-485 Settings page referring to *Section* 10.6 RS-485 Settings.

# 4.4.1 PTZ Control Panel

On the live view screen, click \*\* to show the PTZ control panel / click \*\* to hide it.

Click the direction buttons to control the pan/tilt direction.



Figure 4-3 PTZ Control Panel

Click the zoom/iris/focus buttons for lens control.



- There are 8 direction arrows ( $\triangle$ ,  $\forall$ ,  $\triangleleft$ ,  $\triangleright$ ,  $\forall$ ,  $\triangleleft$ ,  $\triangle$ ) in the live view window.
- For the cameras that support lens control only, the direction buttons will be invalid.

Button	Description
* #	Zoom in/out
	Focus near/far
0 0	Iris open/close
**	Light on/off
<b>4</b> /2	Wiper on/off
₩.	One-touch focus
<b></b>	Initialize lens
	Adjust speed of pan/tilt movements

Table 4-2 Descriptions of PTZ Control Panel

# 4.4.2 Setting / Calling a Preset

# Setting a Preset:

1. In the PTZ control panel, select a preset number from the preset list.



Figure 4-4 Setting a Preset

- 2. Use the PTZ control buttons to move the lens to the desired position.
  - Pan the camera to the right or left.
  - Tilt the camera up or down.
  - Zoom in or out.
  - Refocus the lens.
- 3. Click  $\square$  to save the setting of the current preset.
- 4. Click to delete the preset.



You can configure up to 128 presets.

# Calling a Preset:

This feature enables the camera to call a specified preset position manually or when an event takes place.

In the PTZ control panel, select a defined preset from the list and click to call the preset.



Figure 4-5 Calling a Preset

# 4.5 Configuring Live View Parameters

You can select the stream type and adjust the image size on the live view page.

- Click Main Stream or Sub Stream tab under the menu bar of the live view interface to select the stream type as main stream or sub-stream for live viewing.
- Click each tab
   Image size to 4:3, 16:9, and original.



Please refer to *Section 5.4.1 Configuring Video Settings* for more detailed settings about video parameters.

# Chapter 5 IP network camera Configuration

# 5.1 Configuring Local Parameters



The local configuration refers to the parameters of live view, record files and captured images. The record files and captured images are the files saved using the web browser. The saving paths are on the PC running the browser.

# Steps:

1. Enter the Local Configuration interface:

# **Configuration > Local Configuration**

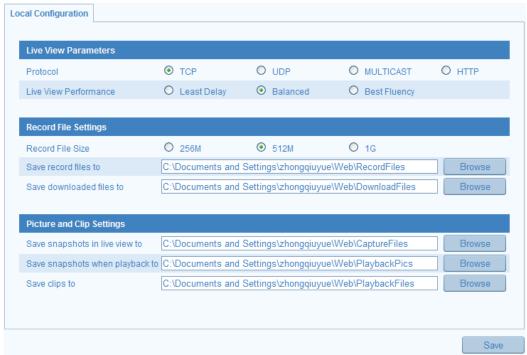


Figure 5-1 Local Configuration Interface

- 2. Configure the following settings:
- Live View Parameters: Set the protocol type and live view performance.
  - ♦ **Protocol Type:** TCP, UDP, MULTICAST and HTTP are selectable.

**TCP:** Ensures complete delivery of streaming data and better video quality, yet the real-time transmission may be affected.

**UDP:** Provides real-time audio and video streams.

HTTP: Allows the same quality as of TCP without setting specific ports for

streaming under some network environments.

**MULTICAST:** It's recommended to select MCAST type when using the Multicast function. For detailed information about Multicast, refer to *Section* 5.3.1 **TCP/IP Settings**.

- Live View Performance: Set the live view performance to Least Delay, Balanced or Best Fluency.
- Record File Settings: Set the desired location for the recorded video files recorded with the web browser.
  - ♦ Record File Size: Select the maximum size of the manually recorded and downloaded video files to 256M, 512M or 1G.
  - ♦ Save record files to: Set the saving path for the manually recorded video files.
  - ♦ Save downloaded files to: Set the saving path for the downloaded video files in playback mode.
- Picture and Clip Settings: Set the desired location the captured images and video files.
  - ♦ Save snapshots in live view to: Set the desired location for the manually captured images in live view mode.
  - ♦ Save snapshots when playback to: Set the desired location for the captured images in playback mode.
  - ♦ Save clips to: Set the desired location for the clipped video files in playback mode.



You can click Browse to change the directory for saving the clips and images.

3. Click Save to save the settings.

# **5.2 Configuring Time Settings**

Please follow the instructions in this section to configure the time synchronization and DST settings.

# Steps:

1. Enter the Time Settings interface:

Configuration > Basic Configuration > System > Time Settings
Or Configuration > Advanced Configuration > System > Time Settings

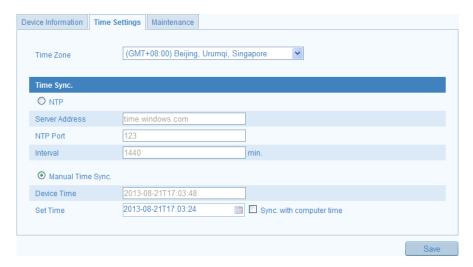


Figure 5-2 Time Settings

- Select the Time Zone.
  - Select the Time Zone you are in from the drop-down menu.
- ♦ Synchronizing Time using a NTP Server.
- (1) Check to enable the NTP function.
- (2) Configure the following settings:

Server Address: IP address of NTP server.

NTP Port: Port of NTP server.

Interval: The time interval between synchronizing.



Figure 5-3 Time Sync by NTP Server



If the camera is connected to a public network, you should use a NTP server that has a time synchronization function.

♦ Synchronizing Time Synchronization Manually Enable the **Manual Time Sync** function and then click to set the system time from the pop-up calendar.



You can also select **Sync with computer time** to synchronize the camera time with your computer.



Figure 5-4 Time Sync Manually

Click DST tab to enable the DST function and Set the date of the DST period.



Figure 5-5 DST Settings

2. Click Save to save the settings.

# **5.3 Configuring Network Settings**

# 5.3.1 Configuring TCP/IP Settings

TCP/IP settings must be properly configured before you operate the camera over network. The camera supports both the IPv4 and IPv6. Both versions may be configured simultaneously without conflict at least one IP version should be configured.

### Steps:

1. Enter TCP/IP Settings interface:

Configuration > Basic Configuration > Network > TCP/IP
Or Configuration > Advanced Configuration > Network > TCP/IP

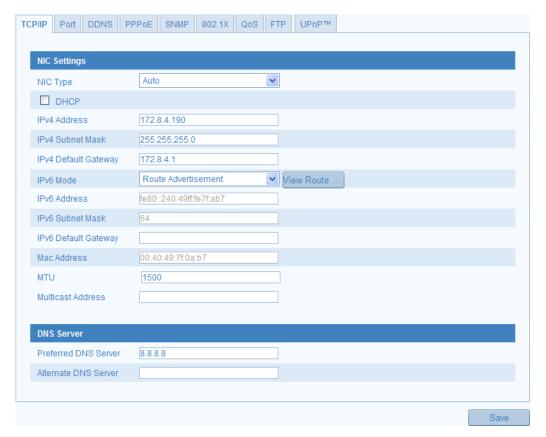


Figure 5-6 TCP/IP Settings

2. Configure the basic network settings, including the NIC Type, IPv4 or IPv6 Address, IPv4 or IPv6 Subnet Mask, IPv4 or IPv6 Default Gateway, MTU settings and Multicast Address.



- The valid value range of MTU is 500 ~ 1500.
- The Multicast sends a stream to the multicast group address and allows multiple clients to acquire the stream at the same time by requesting a copy from the multicast group address. Before utilizing this function, you have to enable the Multicast function of your router.
- 3. Click Save to save the above settings.



A reboot is required for the settings to take effect.

# **5.3.2 Configuring Port Settings**

You can set the port No. of the camera, e.g. HTTP port, RTSP port and HTTPS port.

# Steps:

Enter the Port Settings:

Configuration > Basic Configuration > Network > Port Or Configuration > Advanced Configuration > Network > Port



Figure 5-7 Port Settings

2. Set the HTTP port, RTSP port and HTTPS port of the camera.

**HTTP Port**: The default port number is 80, and can be changed to any port range 1024 to 65535.

RTSP Port: The default port number is 554.

**HTTPS Port:** The default port number is 443, and can be changed to any port range 1024 to 65535.

**SDK Port:** The default SDK port number is 8000.

3. Click Save to save the settings.



A reboot is required for the settings to take effect.

# **5.3.3 Configuring PPPoE Settings**

# Steps:

1. Enter the PPPoE Settings interface:

Configuration > Advanced Configuration > Network > PPPoE

TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	UPnP™			
	Enable	PPPoE									
Dyr	namic IP		0.0.0	.0							
Us	er Name										
Pas	ssword										
Co	nfirm										
											Save

### Figure 5-8 PPPoE Settings

- 2. Check the **Enable PPPoE** checkbox to enable this feature.
- 3. Enter **User Name**, **Password**, and **Confirm** password for PPPoE access.



The User Name and Password should be assigned by your ISP.

4. Click Save to save and exit the interface.



A reboot is required for the settings to take effect.

# **5.3.4 Configuring DDNS Settings**

If your camera is set to use PPPoE as its default network connection, you can use the Dynamic DNS (DDNS) for network access.

# Before you start:

Registration on the DDNS server is required before configuring the DDNS settings of the camera.

### Steps:

Enter the DDNS Settings interface:
 Configuration > Advanced Configuration > Network > DDNS



Figure 5-9 DDNS Settings

- 2. Check the **Enable DDNS** checkbox to enable this feature.
- 3. Select **DDNS Type**. Three DDNS types are selectable: HiDDNS, IPServer and DynDNS.

DynDNS:

# Steps:

- (1) Enter **Server Address** of DynDNS (e.g. members.dyndns.org).
- (2) In the **Domain** text field, enter the domain name obtained from the DynDNS website.
- (3) Enter the **Port** of DynDNS server.
- (4) Enter the **User Name** and **Password** registered on the DynDNS website.
- (5) Click Save to save the settings.



Figure 5-10 DynDNS Settings

• IP Server:

### Steps:

- (1) Enter the Server Address of the IP Server.
- (2) Click save the settings.



For the IP Server, you have to apply a static IP, subnet mask, gateway and preferred DNS from the ISP. The **Server Address** should be entered with the static IP address of the computer that runs the IP Server software.



Figure 5-11 IPServer Settings



For the US and Canada area, you can enter 173.200.91.74 as the server address.

### HIDDNS

### Steps:

(1) Choose the DDNS Type as HiDDNS.



Figure 5-12 HiDDNS Settings

- (2) Enter the Server Address www.hiddns.com.
- (3) Enter the Domain name of the camera. The domain is the same with the device alias in the HiDDNS server.
- (4) Click Save to save the new settings.



A reboot is required for the settings to take effect.

# 5.3.5 Configuring SNMP Settings

You can set the SNMP function to get camera status, parameters and alarm related information and manage the camera remotely when it is connected to the network.

# Before you start:

Before setting the SNMP, please download the SNMP software and manage to receive the camera information via SNMP port. By setting the Trap Address, the camera can send the alarm event and exception messages to the surveillance center.



The SNMP version you select should be the same as that of the SNMP software. And you also need to use the different version according to the security level you required. SNMP v1 provides no security and SNMP v2 requires password for access. And SNMP v3 provides encryption and if you use the third version, HTTPS protocol must be enabled.

# Steps:

1. Enter the SNMP Settings interface:

# Configuration > Advanced Configuration > Network > SNMP

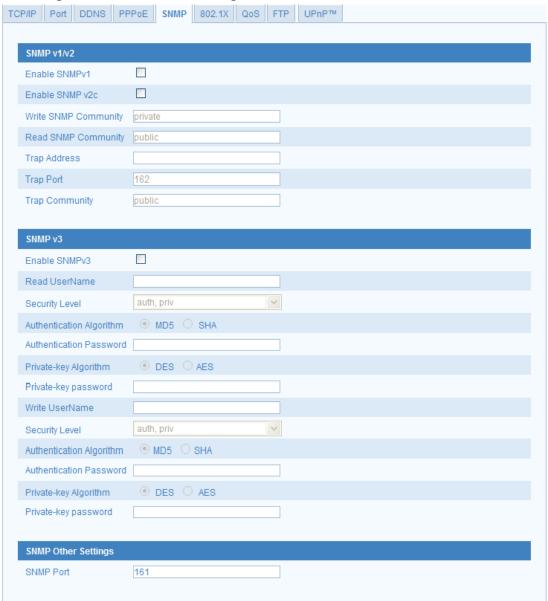


Figure 5-13 SNMP Settings

2. Check the corresponding version checkbox

(Enable SNMPv1, Enable SNMP v2c, Enable SNMPv3) to enable the feature.

3. Configure the SNMP settings.



The settings of the SNMP software should be the same as the settings you configure here.

4. Click Save to save and finish the settings.



A reboot is required for the settings to take effect.

# 5.3.6 Configuring 802.1X Settings

The IEEE 802.1X standard is supported by the IP network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.

# Before you start:

The authentication server must be configured. Please apply and register a user name and password for 802.1X in the server.

# Steps:

1. Enter the 802.1X Settings interface:

Configuration > Advanced Configuration > Network > 802.1X

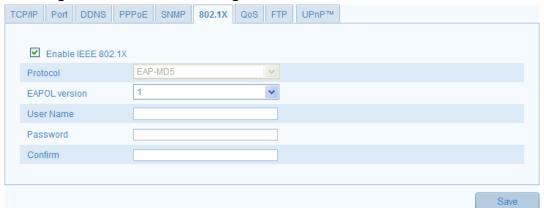


Figure 5-14 802.1X Settings

- 2. Check the **Enable IEEE 802.1X** checkbox to enable the feature.
- 3. Configure the 802.1X settings, including EAPOL version, user name and password.



The EAPOL version must be identical with that of the router or the switch.

- 4. Enter the user name and password to access the server.
- 5. Click Save to finish the settings.



A reboot is required for the settings to take effect.

# 5.3.7 Configuring QoS Settings

QoS (Quality of Service) can help solve the network delay and network congestion by configuring the priority of data sending.

# Steps:

1. Enter the QoS Settings interface:

# Configuration > Advanced Configuration > Network > QoS



Figure 5-15 QoS Settings

2. Configure the QoS settings, including video / audio DSCP, event / alarm DSCP and Management DSCP.

The valid value range of the DSCP is 0-63. The bigger the DSCP value is the higher the priority is.



SCP refers to the Differentiated Service Code Point; and the DSCP value is used in the IP header to indicate the priority of the data.

3. Click Save to save the settings.



A reboot is required for the settings to take effect.

# **5.3.8 Configuring FTP Settings**

You can configure the FTP server related information to enable the uploading of the captured images to the FTP server. The captured images can be triggered by events or a timing snapshot task.

# Steps:

1. Enter the FTP Settings interface:

# Configuration > Advanced Configuration > Network > FTP



Figure 5-16 FTP Settings

2. Configure the FTP settings; the user name and password are required for login to the FTP server.

**Directory**: In the **Directory Structure** field, you can select the root directory, parent directory and child directory. When the parent directory is selected, you have the option to use the Device Name, Device Number or Device IP for the name of the directory; and when the Child Directory is selected, you can use the Camera Name or Camera No. as the name of the directory.

**Upload type:** To enable uploading the captured image to the FTP server.

Anonymous Access to the FTP Server (in which case the user name and password won't be requested.): Check the Anonymous checkbox to enable the anonymous access to the FTP server.



The anonymous access function must be supported by the FTP server.

3. Click Save to save the settings.



If you want to upload the captured images to FTP server, you have to enable the continuous snapshot or event-triggered snapshot on **Snapshot** page. For detailed information, please refer to the *Section 5.6.7*.

# **5.3.9 Configuring UPnP™ Settings**

Universal Plug and Play (UPnP™) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. The UPnP protocol allows devices to connect seamlessly and to simplify the implementation of networks in the home and corporate environments.

With the function enabled, you don't need to configure the port mapping for each port, and the camera is connected to the Wide Area Network via the router.

# Steps:

1. Enter the UPnP™ settings interface.

### Configuration > Advanced Configuration > Network > UPnP

2. Check the checkbox to enable the UPnP™ function. The name of the device when detected online can be edited.

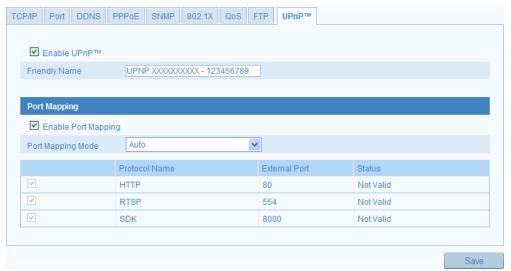


Figure 5-17 Configure UPnP Settings

To port mapping with the default port numbers:

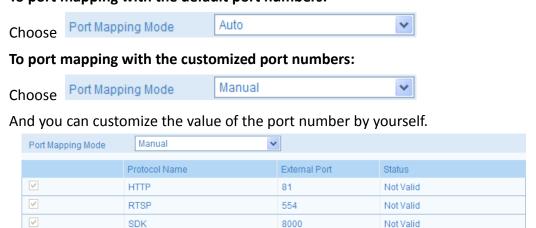


Figure 5-18 Modify Port No.

3. Click to save the settings.

SDK

# 5.4 Configuring Video and Audio Settings

# 5.4.1 Configuring Video Settings

# Steps:

1. Enter the Video Settings interface:

Configuration > Basic Configuration > Video / Audio > Video
Or Configuration > Advanced Configuration > Video / Audio > Video



Figure 5-19 Configure Video Settings

2. Select the **Stream Type** of the camera main stream (normal), or sub-stream.

The main stream is normally used for recording and live viewing with good bandwidth, and the sub-stream can be used for live viewing when the bandwidth is limited (mobile device).

3. You can customize the following parameters:

# Video Type:

Select the stream type to video stream, or video & audio composite stream. The audio signal will be recorded only when the **Video Type** is **Video & Audio**.

### **Resolution:**

Select the resolution of the video output.

### **Bitrate Type:**

Select the bitrate type to constant or variable.

### Video Quality:

When bitrate type is selected as **Variable**, 6 levels of video quality are selectable.

#### Frame Rate:

Set the frame rate to 1/16~25 fps. The frame rate is to describe the frequency at which the video stream is updated and it is measured by frames per second (fps). A higher frame rate is advantageous when there is movement in the video stream, as it maintains image quality throughout.

#### Max. Bitrate:

Set the max. bitrate to 32~16384 Kbps. The higher value corresponds to the higher video quality, but the higher bandwidth is required.

#### **Video Encoding:**

When the **Stream Type** of the camera is main stream, the **Video Encoding** standard can be set to H.264.

When the **Stream Type** of the camera is sub-stream, the **Video Encoding** standard can be set to H.264, MJPEG.

#### I Frame Interval:

Set the I-Frame interval to 1~400.

4. Click Save to save the settings.

# **5.4.2 Configuring Audio Settings**

#### Steps:

1. Enter the Audio Settings interface

Configuration > Basic Configuration > Video / Audio > Audio
Or Configuration > Advanced Configuration > Video / Audio > Audio



Figure 5-20 Audio Settings

2. Configure the following settings.

Audio Encoding: G.711 ulaw, G.711alaw and G.726 are selectable.

**Audio Input:** MicIn and Linein are selectable for the connected microphone.

3. Click Save to save the settings.

# 5.5 Configuring Image Parameters

# 5.5.1 Configuring Display Settings

You can configure the image quality of the camera, including brightness, contrast, saturation, hue, sharpness, etc.



The Display parameters vary depending on the camera model.

#### Steps:

1. Enter the Display Settings interface:

## Configuration > Basic Configuration > Image > Display Settings Or Configuration > Advanced Configuration > Image > Display Settings

2. Set the image parameters of the camera.

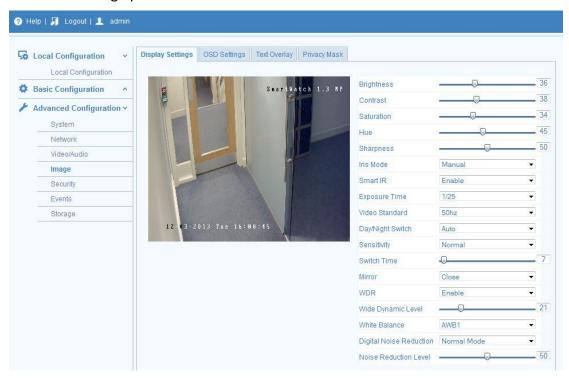


Figure 5-21 Display Settings

## **Descriptions of parameter configuration**

#### Iris Mode:

Auto and Manual are selectable.

#### **Auto Iris Level:**

If you select auto iris mode, you can set the auto iris level.

#### Video Standard:

50 Hz and 60 Hz are selectable. Choose according to the different video standards; normally 50Hz for PAL standard and 60Hz for NTSC standard.

#### Day/Night Switch:

Day, Night and Auto are selectable.

#### Sensitivity:

If you select auto day/night switch, you can set the sensitivity of the switch as high, normal and low.

#### Mirror:

The mirror function enables you to view another aspect of the image. You can flip the

image horizontally and vertically. It can be used to view the image in the way you see it directly using your eyes.

#### WDR:

Wide dynamic range can be used when there is a high contrast of the bright area and the dark area of the scene.

#### **BLC Area:**

BLC area is the area sense the light intensity; Close, Up, Down, Left, Right and Center are selectable.

White Balance: The below figure shows the white balance options. You can select according to the camera conditions. For example, if there is a fluorescent lamp in the scene, select Fluorescent Lamp.



Figure 5-22 White Balance

#### **Digital Noise Reduction:**

Close, Normal Mode and Expert Mode are selectable.

#### **Noise Reduction Level:**

For adjusting the noise reduction level (only valid when the DNR function is enabled).

#### Scene Mode:

Select it as indoor or outdoor.

#### HLC:

High light function can be used when there are strong lights in the scene which affect the image quality.

#### **Grey Scale:**

Select the range of the grey scale as [0-255] or [16-235].

#### **Corridor mode:**

To make a complete use of the 16:9 aspect ratio, you can enable corridor mode when the camera is installed in a narrow position.

When installing, turn the camera to the 90 degrees or rotate the 3-axis lens to 90 degrees, and set the corridor mode as on, you will get a normal view of the scene with 9:16 aspect ratio to ignore the needless information such as the wall, and get more meaningful image.

# **5.5.2 Configuring OSD Settings**

Configure the camera's name and time position on the screen.

#### Steps:

Enter the OSD Settings interface:

#### Configuration > Advanced Configuration > Image > OSD Settings

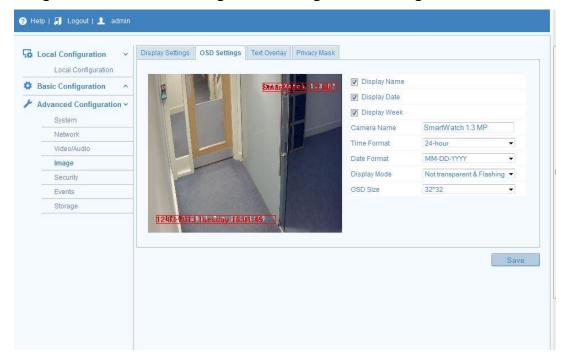


Figure 5-23 OSD Settings

- 2. Check the checkbox of what you want to display on the camera image.
- 3. Edit the camera name in the text box.
- 4. Select from the drop-down list to set the time format, date format, display mode and the OSD font size.
- 5. You can use the mouse to click and drag the text frame Camera 01 in the live view window to adjust the OSD position.

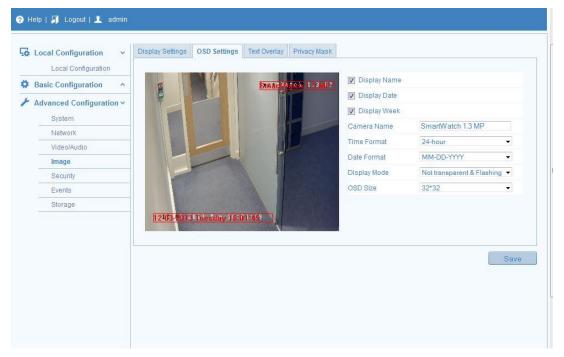


Figure 5-24 Adjust OSD Location

6. Click Save to activate above settings.

## 5.5.3 Configuring Text Overlay Settings

You can customize the text overlay.

#### Steps:

1. Enter the Text Overlay Settings:

### Configuration > Advanced Configuration > Image > Text Overlay

- 2. Check the checkbox to enable the on-screen display.
- 3. Input the characters in the textbox.
- 4. Use the mouse to click and drag the red text frame Test 1 in the live view window to adjust the text overlay position.
- 5. Click Save



Configure up to 4 text overlays.

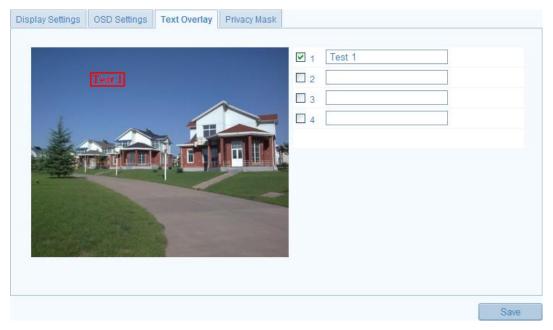


Figure 5-25 Text Overlay Settings

# **5.5.4 Configuring Privacy Mask**

Privacy mask enables you to mask certain areas on scene to prevent certain them

from live view and record.

#### Steps:

1. Enter the Privacy Mask Settings interface:

#### Configuration > Advanced Configuration > Image > Privacy Mask

- Check the checkbox to Enable Privacy Mask.
- 3 Click Draw Area

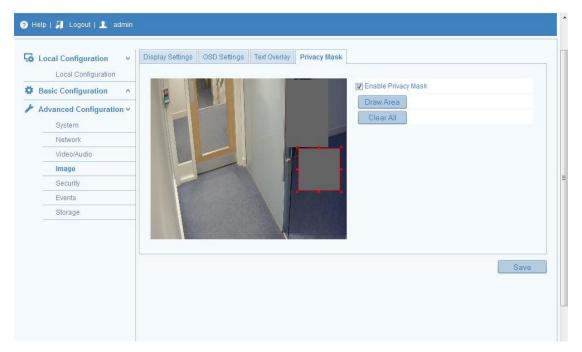


Figure 5-26 Privacy Mask Settings

4. Click and drag the mouse draw the mask area.



Draw up to 4 areas per camera.

- 5. (Optional) click Clear All to clear all of the areas you set.
- 6. Click Save to save the settings.

# **5.6 Configuring and Handling Alarms**

This section explains how to configure the IP network camera to respond to alarm events, including motion detection, tamper-proof, alarm input, alarm output and other exceptions. These events can trigger alarm actions, such as Notify Surveillance Center, Send Email, Trigger Alarm Output, etc.

For example, when an external alarm is triggered, the IP network camera sends a

notification to an e-mail address.

## **5.6.1 Configuring Motion Detection**

Motion detection is a feature that can take alarm activities and record the video from when the motion occurred in the surveillance scene.

#### Tasks:

1. Set the Motion Detection Area.

#### Steps:

(1) Enter the motion detection settings interface

#### **Configuration > Advanced Configuration > Events > Motion Detection**

(2) Check the checkbox of Enable Motion Detection.

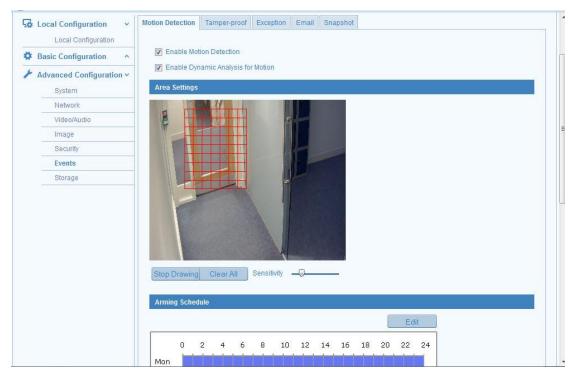


Figure 5-27 Enable Motion Detection

(3) Click Draw Area . Click and drag the mouse on the live video image to draw a motion detection area.



You can draw up to 8 motion detection areas on the same camera.

(4)Click Stop Drawing to finish drawing.

- (5)(Optional) Click Clear All to clear all of the areas.
- (6)(Optional) Move the slider Sensitivity to set the sensitivity of the detection areas.
- 2. Set the Arming Schedule for Motion Detection.

#### Steps:

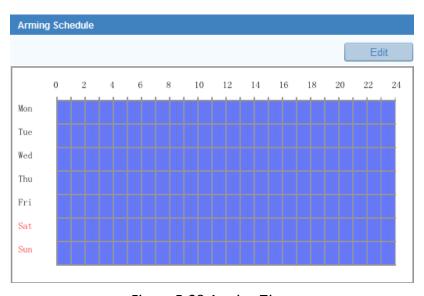


Figure 5-28 Arming Time

- (1)Click to edit the arming schedule. The Figure 5-29 shows the editing interface of the arming schedule.
- (2) Select the day you want to set the arming schedule.
- (3) Click to set the time period for the arming schedule.
- (4) After you set the arming schedule, you can copy the schedule to other days.
- (5) Click to save the settings.



Up to 4 time periods can be configured per day.



Figure 5-29 Arming Time Schedule

3. Set the Alarm Actions for Motion Detection.

You can specify the linkage method when an event occurs. The following contents are about how to configure the different types of linkage method.



Figure 5-30 Linkage Method

#### Steps:

(1) Check the checkbox to select the linkage method. Audible warning, notify surveillance center, send email, upload to FTP, trigger channel and trigger alarm output are selectable (Optional).

#### Audible Warning

Trigger the audible warning locally.

#### Notify Surveillance Center

Send an exception or alarm signal to remote management software when an event occurs.

#### Send Email

Send an email with alarm information to a user or users when an event occurs.



To send the Email when an event occurs, you will need to refer to *Section 5.6.6* to set the related parameters.

#### Upload to FTP

Capture the image when an alarm is triggered and upload the image to a FTP server.



Set the FTP address and the remote FTP server first. Refer to *Section 5.3.8* for detailed information.

#### Trigger Channel

The video will be recorded when the motion is detected. You have to set the recording schedule for this function. Please refer to *Section 6.2* for detailed information.

#### Trigger Alarm Output

Trigger one or more external alarm outputs when an event occurs.



To trigger an alarm output when an event occurs, please refer to *Section 5.6.4* to set the related parameters.

# 5.6.2 Configuring Tamper-proof Alarm

You can configure the camera to trigger an alarm when the lens is covered.

#### Steps:

1. Enter the Tamper-proof Settings interface:

Configuration > Advanced Configuration > Events > Tamper-proof

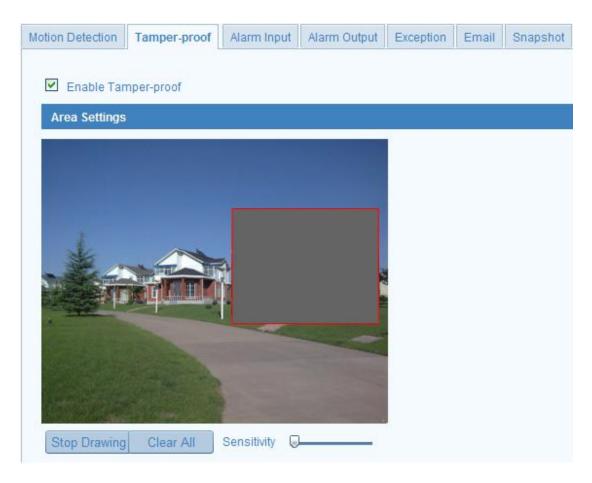


Figure 5-31 Tamper-proof Alarm

- 2. Check **Enable Tamper-proof** checkbox to enable tamper-proof detection.
- 3. Set the tamper-proof area; refer to *Step 1* **Set the Motion Detection Area** in *Section 5.6.1*.
- 4. Click to edit the arming schedule for tamper-proof detection. The arming schedule configuration is the same as setting the arming schedule for motion detection. Refer to *Step 2 Set the Arming Schedule for Motion Detection* in *Section 5.6.1*.
- 5. Check the checkbox to select the linkage method for tamper-proof. Audible warning, notify surveillance center, send email and trigger alarm output are selectable. Please refer to *Step 3 Set the Alarm Actions for Motion Detection* in *Section 5.6.1*.
- 6. Click Save to save the settings.

# 5.6.3 Configuring External Alarm Input

1. Enter the Alarm Input Settings interface:

#### **Configuration > Advanced Configuration > Events > Alarm Input:**

2. Select the alarm input No. and the Alarm Type. The alarm type can be NO

(Normally Open) and NC (Normally Closed). Edit the name for the alarm input (optional).

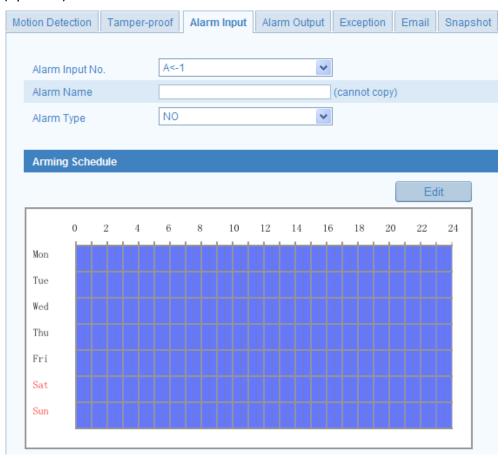


Figure 5-32 Alarm Input Settings

- 3. Click to set the arming schedule for the alarm input. Refer to Step 2

  Set the Arming Schedule for Motion Detection in Section 5.6.1.
- 4. Check the checkbox to select the linkage method taken for the alarm input. Refer to Step 3 Set the Alarm Actions for Motion Detection in Section 5.6.1.
- 5. You can also select PTZ linking for the alarm input if PTZ cameras are installed. Check the relative checkbox and select the No. to enable Preset Calling, Patrol Calling or Pattern Calling.
- 6. You can copy your settings to other alarm inputs.
- 7. Click Save to save the settings.

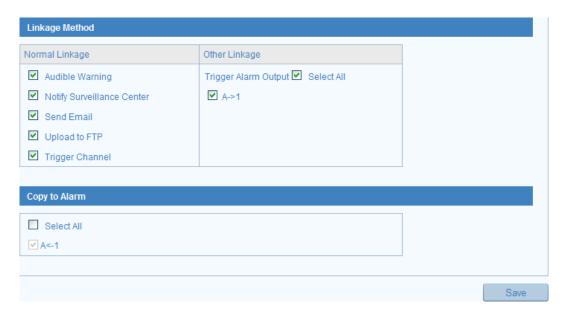


Figure 5-33 Linkage Method

## 5.6.4 Configuring Alarm Output

#### Steps:

1. Enter the Alarm Output Settings interface:

## Configuration>Advanced Configuration> Events > Alarm Output

- 2. Select one alarm output channel in the **Alarm Output** drop-down list. Configure a name for the alarm output (optional).
- 3. The **Delay** time can be set to **5sec, 10sec, 30sec, 1min, 2min, 5min, 10min** or **Manual**. The delay time refers to the time duration that the alarm output remains after alarm occurs.
- 4. Click to enter the **Edit Schedule Time** interface. The time schedule configuration is the same as the settings of the arming schedule for motion detection Refer to *Step 2* **Set the Arming Schedule for Motion Detection** in *Section 5.6.1*.
- 5. You can copy the settings to other alarm outputs.
- 6. Click Save to save the settings.

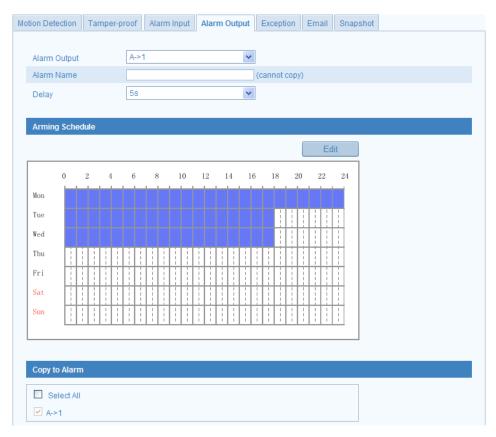


Figure 5-34 Alarm Output Settings

## 5.6.5 Handling Exception

Other exceptions can be HDD full, HDD error, network disconnected, IP address conflicted and illegal login to the cameras.

#### Steps:

1. Enter the Exception Settings interface:

#### **Configuration > Advanced Configuration > Events > Exception**

2. Check the checkbox to set the actions taken for the Exception alarm. Refer to Step 3 Set the Alarm Actions Taken for Motion Detection in Section 5.6.1.

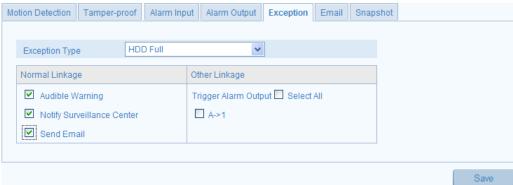


Figure 5-35 Exception Settings

3. Click Save to save the settings.

## 5.6.6 Email Sending Triggered by Alarm

The system can be configured to send an Email notification to all addresses if an alarm event is detected, e.g., motion detection event, video loss, tamper, etc.

#### Before you start:

Please configure the DNS Server settings under **Basic Configuration > Network > TCP/IP** or **Advanced Configuration > Network > TCP/IP** before using the Email function.

#### Steps:

 Enter the TCP/IP Settings (Configuration > Basic Configuration > Network > TCP/IP or Configuration > Advanced Configuration > Network > TCP/IP) to set the IPv4 Address, IPv4 Subnet Mask, IPv4 Default Gateway and the Preferred DNS Server.



Please refer to *Section 5.3.1 Configuring TCP/IP Settings* for detailed information.

2. Enter the Email Settings interface:

#### Configuration > Advanced Configuration > Events > Email

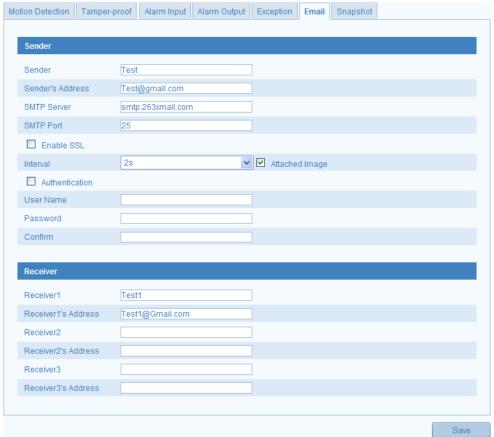


Figure 5-36 Email Settings

3. Configure the following settings:

Sender: The name of the email sender.

Sender's Address: The email address of the sender.

SMTP Server: The SMTP Server IP address or host name (e.g.,

smtp.263xmail.com).

**SMTP Port:** The SMTP port. The default TCP/IP port for SMTP is 25 (not secured). And the SSL SMTP port is 465.

**Enable SSL:** Check the checkbox to enable SSL if it is required by the SMTP server.

**Attached Image:** Check the checkbox of Attached Image if you want to send emails with attached alarm images.

**Interval:** The interval refers to the time between two actions of sending attached images.

**Authentication** (optional): If your email server requires authentication, check this checkbox to use authentication to log in to this server and enter the login user Name and password.

**Choose Receiver:** Select the receiver to which the email is sent. Up to 2 receivers can be configured.

**Receiver:** The name of the user to be notified.

Receiver's Address: The email address of user to be notified.

4. Click Save to save the settings.

## 5.6.7 Configuring Snapshot Settings

You can configure a scheduled snapshot or an event-triggered snapshot. The captured image can be stored on the SD card (if supported by camera) or upload to a FTP server.

#### **Basic Settings**

#### Steps:

1. Enter the Snapshot Settings interface:

#### Configuration > Advanced Configuration > Events > Snapshot

- Check the Enable Timing Snapshot checkbox to enable continuous snapshot.
   Check the Enable Event-triggered Snapshot checkbox to check event-triggered snapshot.
- 3. Select the quality of the snapshot.
- 4. Set the time interval between two snapshots.
- 5. Click Save to save the settings.

#### Uploading to FTP

You can follow below configuration instructions to upload the snapshots to FTP.

Upload continuous snapshots to FTP

#### Steps:

- 1) Configure the FTP settings and check Upload Picture checkbox in FTP Settings interface. Please refer to Section 5.3.8 Configuring FTP Settings for more details to configure FTP parameters.
- 2) Check the **Enable Timing Snapshot** checkbox.
- Upload event-triggered snapshots to FTP

#### Steps:

- 1) Configure the FTP settings and check Upload Picture checkbox in FTP Settings interface. Please refer to Section 5.3.8 Configuring FTP Settings for more details to configure FTP parameters.
- 2) Check Upload to FTP checkbox in Motion Detection Settings or Alarm Input interface. Please refer to Step 3 Set the Alarm Actions Taken for Motion Detection in Section 6.6.1, or Step 4 Configuring External Alarm Input in Section 5.6.3.
- 3) Check the **Enable Event-triggered Snapshot** checkbox.

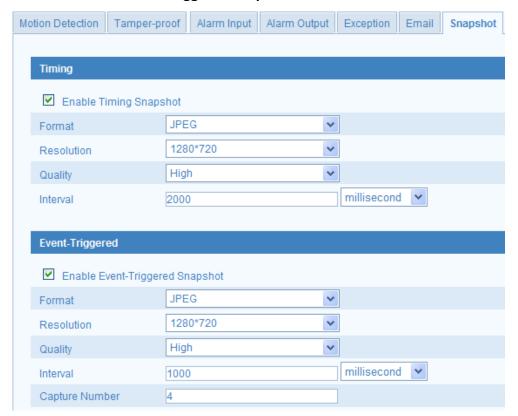


Figure 5-37 Snapshot Settings

# **Chapter 6 Storage Settings**

#### Before you start:

To configure record settings, please make sure that you have the network storage device on the network or an SD card inserted in your camera.

# 6.1 Configuring NAS Settings

#### Before you start:

The network disk should be available on the network and properly configured to store the recorded files, log files, etc.

#### Steps:

- 1. Add the network disk
  - (1) Enter the NAS (Network-Attached Storage) Settings interface:

### Configuration > Advanced Configuration > Storage > NAS



Figure 6-1 Add Network Disk

(2) Enter the IP address of the network disk, and enter the default file path.



Please refer to the *User Manual of NAS* for creating the file path.

(3) Click Save to add the network disk.



After having saved successfully, you need to reboot the camera to activate the settings.

- 2. Initialize the added network disk.
  - (1) Enter the HDD Settings interface (Advanced Configuration > Storage > Storage Management), in which you can view the capacity, free space, status, type and property of the disk.

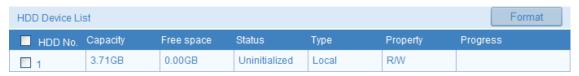


Figure 6-2 Initialize Disk

(2) If the status disk is **Uninitialized** select the disk and click format to start initializing the disk.

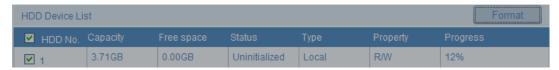


Figure 6-3 Initializing

When the initialization completed, the status of disk will become **Normal.** 

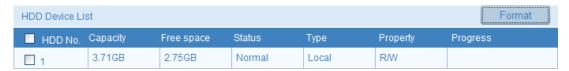


Figure 6-4 View Disk Status



- Up to 8 NAS disks can be connected to the camera.
- To initialize and use the SD card after insert it to the camera, please refer to the steps of NAS disk initialization.

# **6.2 Configuring Recording Schedule**

There are two types of recording settings for the cameras: manual recording and scheduled recording. For manual recording, refer to *Section 4.3 Recording and Capturing Images Manually*. In this section, you can follow the instructions to configure the scheduled recording.

#### Steps:

1. Enter the Record Schedule Settings interface:

## **Configuration > Advanced Configuration > Storage > Record Schedule**

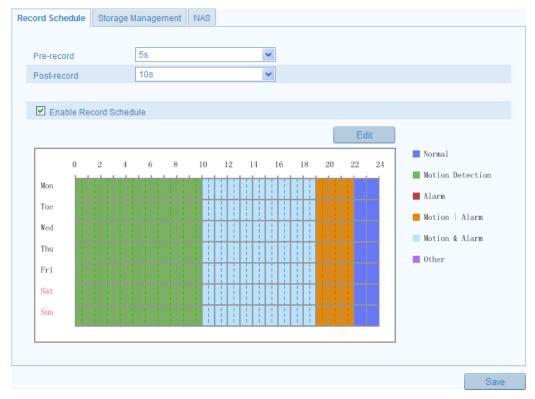


Figure 6-5 Recording Schedule Interface

- 2. Check to Enable Record Schedule.
- 3. Set the record parameters of the camera.

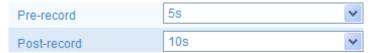


Figure 6-6 Record Parameters

- Pre-record: The time you set to start recording before the scheduled time or before an event.
- Post-record: The time you set to stop recording after the scheduled time or an event.



The record parameter configurations vary depending on the camera model.

4. Click to edit the record schedule.

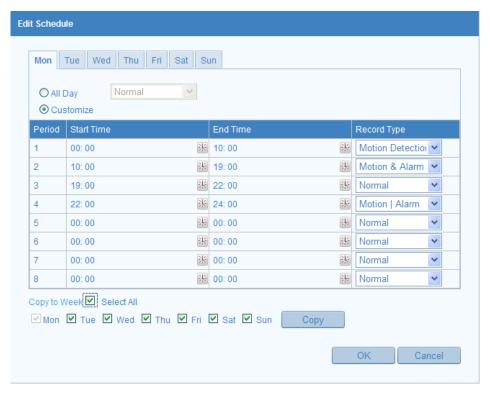


Figure 6-7 Record Schedule

- 5. Select the day to set the record schedule.
  - (1) Set all-day record or segment record:
  - ♦ If you want to configure the all-day recording, please select the **All Day** checkbox.
  - ♦ If you want to record in different time schedules, select **Customize** checkbox. Set **Start Time** and **End Time**.



The time of each segment cannot be overlapped. Up to 4 segments can be configured.

- (2) Select a **Record Type**. The record type can be Normal, Motion Detection, Alarm or Motion Alarm.
- **♦** Normal

If you select Normal, recording will be as per motion alarm time schedule.

**♦** Record Triggered by Motion Detection

If you select **Motion Detection**, the video will be recorded when the motion is detected.

Record Triggered by Alarm

If you select **Alarm**, the video will be recorded when the alarm input is triggered.

Record Triggered by Motion & Alarm

If you select **Motion & Alarm**, the video will be recorded when the motion and alarm input is triggered at the same time.

# ◆ Record Triggered by Motion | Alarm If you select Motion | Alarm, the video will be recorded when the external

alarm is triggered or motion is detected.

- (3) Check the checkbox Select All and click Copy to copy settings of this day to the whole week. You can also check any of the checkboxes before the date and click Copy.
- (4) Click to save the settings and exit the **Edit Record Schedule** interface.
- 6. Click Save to save the settings.

# **Chapter 7 Playback**

This section explains how to view remote recorded video files stored on the network or SD cards.

#### Steps:

1. Click Playback on the menu bar to enter playback screen.

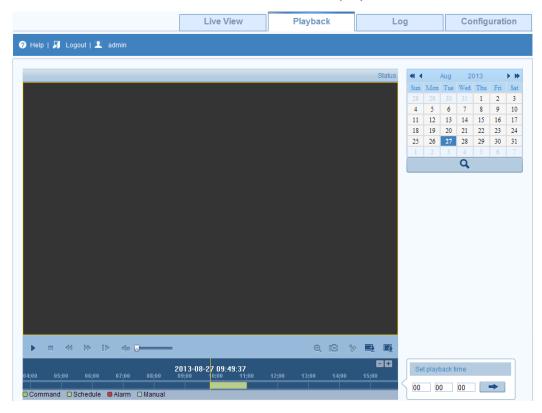


Figure 7-1 Playback Interface

2. Select the date and click .



Figure 7-2 Search Video

3. Click let o play the video files found on this date.

The toolbar on the bottom of Playback screen can be used to control playback

process.



Figure 7-3 Playback Toolbar

Table 7-1 Description of the buttons

Button	Operation	Button	Operation
<b>&gt;</b>	Play	0	Capture a image
ш	Pause	*/*	Start/Stop clipping video files
*	Stop		Audio on and adjust volume/Mute
<b>≪</b>	Speed down		Download video files
<b>&gt;</b>	Speed up	<b>E</b>	Download captured images
I	Playback by frame	⊕ / €	Enable/Disable digital zoom

Drag the progress bar with the mouse to go to a different playback position. You can also input a time and click to go to a required time. Click to zoom out/in the progress bar.

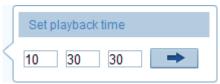


Figure 7-4 Set Playback Time



Figure 7-5 Progress Bar

The different colors of the video on the progress bar stand for the different video types.

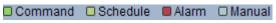


Figure 7-6 Video Types

# **Chapter 8 Log Searching**

Log information from the camera can be stored in log files. You can also export these log files.

### Before you start:

Please configure network storage or insert a SD card in the camera.

#### Steps:

1. Click on the menu bar to enter log searching interface.



Figure 8-1 Log Searching Interface

- 2. Set the log search conditions.
- 3. Click Search to search the log files. The log files will be displayed on the Log interface.



Figure 8-2 Log Searching

4. To export the log files, click Save Log to save the log files in your computer.

# **Chapter 9 Others**

# 9.1 Managing User Accounts

Enter the User Management interface:

Configuration > Basic Configuration > Security > User

Or Configuration > Advanced Configuration > Security > User

The **admin** user has access to create, modify or delete other accounts. Up to 15 user accounts can be created.



Figure 9-1 User Information

Add a User

#### Steps:

- 1. Click Add to add a user.
- 2. Input the new User Name, select Level and input Password.



The level indicates the permissions you give to the user. You can define the user as **Operator** or **User**.

- In the Basic Permission field and Camera Configuration field, you can check or uncheck the permissions for the new user.
- 4. Click to finish the user addition.

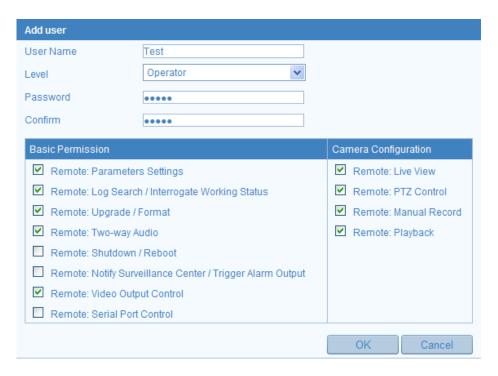


Figure 9-2 Add a User

Modify a User

#### Steps:

- 1. Left-click to select the user from the list and click Modify
- 2. Modify the User Name, Level or Password.
- In the Basic Permission field and Camera Configuration field, you can check or uncheck the permissions.
- 4. Click to complete the users permissions.

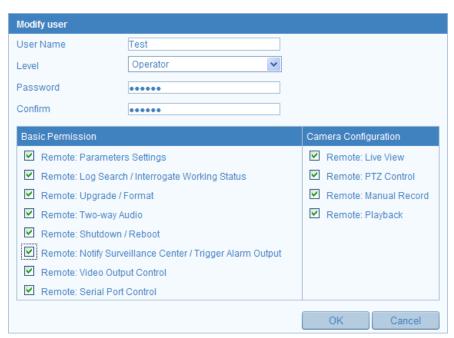


Figure 9-3 Modify a User

Delete a User

#### Steps:

- 1. Select the user you want to delete, and click Delete
- 2. Click when dialogue box pops up to confirm the operation.

# 9.2 Configuring RTSP Authentication

You can specifically secure the stream data of live view.

#### Steps:

1. Enter the RTSP Authentication interface:

#### Configuration > Advanced Configuration > Security > RTSP Authentication



Figure 9-4 RTSP Authentication

2. Select the **Authentication** type **basic** or **disable** in the drop-down list to enable or disable the RTSP authentication.



If you disable the RTSP authentication, anyone can access the video stream by the RTSP protocol via the IP address.

3. Click Save to save the settings.

# 9.3 Anonymous Visit

Enabling this function allows verybody access without the user name and password for the device.

#### Steps:

1. Enter the Anonymous Visit interface:

Configuration > Advanced Configuration > Security > Anonymous Visit



Figure 9-5 Anonymous Visit

- 2. Set the **Anonymous Visit** permission **Enable** or **Disable** in the drop-down list to enable or disable anonymous visit.
- 3. Click Save to save the settings.

There will be a checkbox of Anonymous by the next time you logging in.



Figure 9-6 Login Interface with an Anonymous Checkbox

4. Check the checkbox of **Anonymous** and click

# 9.4 IP Address Filter

This function makes it possible for access control.

#### Steps:

1. Enter the IP Address Filter interface:

Configuration > Advanced Configuration > Security > IP Address Filter

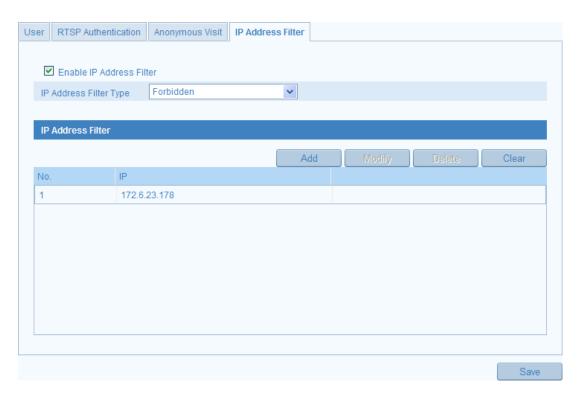


Figure 9-7 IP Address Filter Interface

- 2. Check the checkbox of **Enable IP Address Filter**.
- 3. Select the type of IP Address Filter in the drop-down list, Forbidden or Allowed.
- 4. Set the IP Address Filter list.
  - Add an IP Address

#### Steps:

- (1) Click Add to add an IP.
- (2) Input the IP Adreess.

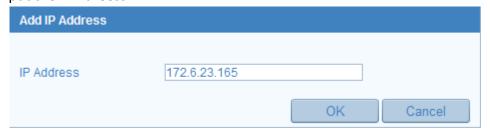


Figure 9-8 Add an IP

- (3) Click oK to finish adding.
- Modify an IP Address

#### Steps:

(1) Left-click an IP address from filter list and click \_\_\_\_\_\_\_ button.

(2) Modify the IP address in the text filed.

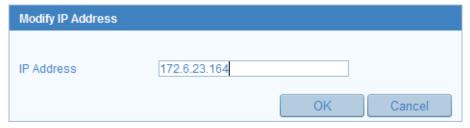


Figure 9-9 Modify an IP

- (3) Click the button to finish modification.
- Delete an IP Address
   Left-click an IP address from filter list and click
- Delete all IP Addresses
   Click Clear to delete all the IP addrsses.
   Click Save to save the settings.

# 9.5 Viewing Device Information

Enter the Device Information screen:

Configuration > Basic Configuration > System > Device Information
Or Configuration > Advanced Configuration > System > Device Information
In the Device Information interface, you can edit the Device Name.

Other information from the IP network camera, such as Model, Serial No., Firmware Version, Encoding Version, Number of Channels, Number of HDDs, Number of Alarm Input and Number of Alarm Output are displayed. This information cannot be changed.

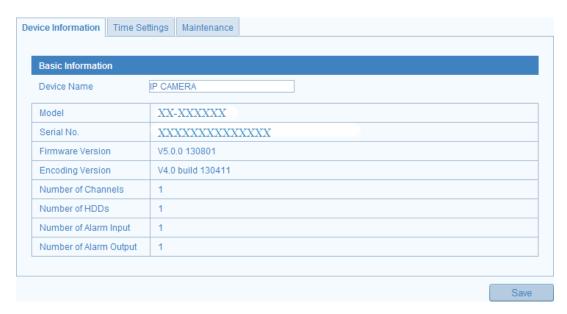


Figure 9-10 Device Information

## 9.6 Maintenance

## 9.6.1 Rebooting the Camera

#### Steps:

1. Enter the Maintenance interface:

**Configuration > Basic Configuration > System > Maintenance**Or **Configuration > Advanced Configuration > System > Maintenance**:

2. Click Reboot to reboot the IP network camera.



Figure 9-11 Reboot the Device

# 9.6.2 Restoring Default Settings

#### Steps:

1. Enter the Maintenance interface:

**Configuration > Basic Configuration > System > Maintenance**Or **Configuration > Advanced Configuration > System > Maintenance** 

2. Click Restore or Default to restore the default settings.



Figure 9-12 Restore Default Settings



After restoring the default settings, the IP address will also be defaulted.

## 9.6.3 Exporting/Importing Configuration File

#### Steps:

Enter the Maintenance interface:

**Configuration > Basic Configuration > System > Maintenance**Or **Configuration > Advanced Configuration > System > Maintenance** 

- 1. Click Export to save the configuration file of the current device.
- 2. Click Browse to select the saved configuration file and then click mport to start importing configuration file.



You need to reboot the camera after importing a configuration file.

## 9.6.4 Upgrading the System

#### Steps:

1. Enter the Maintenance interface:

**Configuration > Basic Configuration > System > Maintenance**Or **Configuration > Advanced Configuration > System > Maintenance** 

2. Click Browse to select the local upgrade file and then click Upgrade to start remote upgrade.



The upgrading process will take 1 to 10 minutes. Please don't disconnect power from the camera during this process. The camera will reboot automatically after upgrading.



Figure 9-13 Remote Upgrade